# Bellwork 09/13/2011 Use one of the laws of logic to draw a conclusion from the statements. Tell which law of logic you used. 1. If two angles are complementary, then the sum of their measures is 90°. $\angle C$ and $\angle D$ are complementary. & C+ & D add to Detachment 2. If water is at room temperature, then it is a liquid. If water is a liquid, then it is not frozen. If water is at room temp. then it is not trozen. Syllogism

## Geometry 2.4 Use Postulates and Diagrams Standard(s): 7

# Vocabulary:

1. Line Perpendicular to a Plane: A line that intersects the plane in a point and is perpendicular to every line in the plane that intersects it at that point.



#### POSTULATES

### For Your Notebook

Point, Line, and	Plane Postulates
POSTULATE 5	Through any two points there exists exactly one line.
POSTULATE 6	A line contains at least two points.
POSTULATE 7	If two lines intersect, then their intersection is exactly one point.
POSTULATE 8	Through any three noncollinear points there exists exactly one plane.
POSTULATE 9	A plane contains at least three noncollinear points.
POSTULATE 10	If two points lie in a plane, then the line containing them lies in the plane.
POSTULATE 11	If two planes intersect, then their intersection is a line.

# Identify a Postulate Illustrated by a Diagram

State the postulate illustrated by the diagram.









